A Working Definition of Cloud Computing

- Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.
- This cloud model promotes availability and is composed of five essential characteristics, three service models, and four deployment models.



The NIST Cloud Definition Framework

Deployment Models

Software as a

Private

Cloud

Community Cloud

Hybrid Clouds

Public Cloud

Service Models

Service (SaaS)

Platform as a Service (PaaS) Infrastructure as a Service (laaS)

Essential Characteristics On Demand Self-Service

Broad Network Access

Rapid Elasticity

Resource Pooling

Measured Service

Common Characteristics Massive Scale

Resilient Computing

Homogeneity

Geographic Distribution

Virtualization

Service Orientation

Low Cost Software

Advanced Security

